

Table. Summary of animal studies examining the effect of paternal diet or fasting on phenotypes offspring and grand-offspring. F1 indicates offspring of the exposed male. F2 indicates the grand-offspring of exposed males. ND Not reported, 'Yes' indicates parameter was significantly altered as a result of the male intervention, 'No' indicates was not significantly different

Study	Species	Exposure	Exposure time	Exposure age from	Outcome	Effect in			
						F1 male	F1 female	F2 male	F2 female
44	Drosophila	30g/L vs. 300g/L sugar diet	2 days	4-5 day	Increased serum triglycerides	Yes	ND	No	ND
40	Mouse: Out bred Swiss	24 hour fast	6x over 3weeks	8 week old	Serum glucose at 6wk	Yes	Yes	ND	ND
43	Rat: Sprague Dawley	Chow vs. 40.7-43% fat diet	14 weeks	4 weeks	Impaired glucose tolerance	ND	Yes	ND	ND
41	Mouse: C57/bl6	11% vs. 20% protein diet	6-9 weeks	21 days	Lower cholesterol esters	Yes	Yes	ND	ND
42	Mouse: C57/bl6	21% vs. 40% Fat diet	10 weeks	5 weeks	Increased weight	Yes	Yes	Yes (via female)	No
					Impaired glucose tolerance	Yes	Yes	Yes (via female)	No